

Compartment 10
Gladwin Forest Management Unit
2003 Year of Entry
Final Version as per Compartment Review 11/1/01

County: Clare

Description: T2ON R5W Sec. 18-21, 29-32; T19N R5W Sec. 5 &

Acreage: 4071

Stand Examiner: D. Ekdom, Forester, 5/15/01

General Comments: This compartment is mostly a mix of even-age, 2-aged, and uneven-aged jack pine, red pine, and oak. There are some areas that are heavy to upland and lowland aspen and lowland hardwoods. The jack pine and oak stands range from immature to over-mature. The aspen stands are immature. The red pine stands are mostly immature. There will be a lot of cutting in this compartment during this year-of-entry. Many oak and jack pine stands have been identified which will hold 10 years. Some of the jack pine stands being treated will be converted to red pine to offset the loss of red pine due to its conversion to jack pine for Kirtland's Warbler in succeeding year-of-entry's. Several of the oak stands with high mortality will be converted to either jack pine or red pine. Some of the red pine plantation stands need to be thinned for the second time. Some of the natural red pine stands will be thinned for the first time. Aspen treatment will be very minimal this year-of-entry but there will be sufficient aspen to treat next time if some of the stands are treated early.

Soil and Terrain The terrain is mostly flat to gently rolling and dry except in the floodplain of the Muskegon River and the watershed of Prestle Creek. The soils range from excessively drained to very poorly drained sands in the jack pine plains to somewhat poorly drained to very poorly drained mucks in the floodplains of the Muskegon River and the wetlands surrounding Prestle Creek.

Ownership Patterns: State land in this compartment is mostly in solid blocks with private land surrounding the state land. There are some private in-holdings in Sections 18,21,29,30.

Land Use and Development

Private Land: Most of the private land is forested, contains seasonal cabins, and used for recreation. There is one small sub-division with permanent residences within this compartment in Section 20. There are also a few permanent residences on forested parcels scattered throughout the compartment.

Recreational Use: Portions of the West Loop of the Fur Farm Snowmobile Trail run through this compartment and this trail is heavily used. This compartment is heavily used by hunters during deer season and also by campers, especially adjacent to the Muskegon River and associated meanders and oxbow lakes (Black Louie Bayou and Harrington Bayou).

Recreational Sites: There are numerous dispersed camping sites scattered throughout the compartment. These sites are mostly associated with deer hunting and activities centering on the Muskegon River and the Old Fur Farm Flooding (e.g. - boating, fishing, duck hunting, etc.).

Gas/Oil/Mineral Activity: There is a pipeline ROW containing 3 pipelines running north and south through the western half of this compartment. Three well sites with associated pipelines also occur within this compartment. A large portion of this compartment is classified as non-development for oil and gas leasing due to either Kirtland's Warbler designations or wetlands. The rest of the compartment is classified as either development or development with restrictions.

Gas/Oil/Mineral Activity (continued): Per Thomas Hoane-Geologist, FMFMD: Surface sediments consist of glacial outwash sand, gravel, and postglacial alluvium. Glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Pennsylvanian Saginaw and Grand River Formations. The Saginaw Formation is used

for clay/shale in other areas of the State. Gravel pits are located within two miles of the compartment, and potential is thought to be good. The compartment lies between Cranberry Lake and Winterfield Fields. Both fields are gas storage fields and Cranberry Lake is in secondary recovery operations. Much of the compartment is under lease for oil production or gas storage operations.

Land Use Problem and Conflicts: Land use problems include increasing levels of illegal ORV use especially on the pipeline ROW and down into the floodplain of the Muskegon River and increasing levels of firewood theft in some of the high mortality oak stands. There is a small incidence of trash on some two tracks off county roads but at this time, it is very minimal. A few suspected sign and fence trespasses were discovered and most of these will be dealt with when the timber sales are set up.

Unique Features and Special Wildlife/Fisheries Considerations

Endangered/Threatened Species: This compartment is within the Leota Kirtland's Warbler Management Unit and those areas of the compartment designated as KW Blocks are being actively managed for Kirtland's Warbler nesting habitat. There has been one recorded sighting of the secretive locust in this compartment in the last 10 years.

Wetlands/Fragile Area: There are quite a few wetland areas in Sections 5 & 32. There is heavy beaver activity along Prestle Creek which contributes to the continued existence of these wetland areas. These areas also have ridges of aspen/oak in between lowland hardwoods/marsh which makes these areas good habitat for a variety of wildlife species. There are also extensive wetland areas containing lowland hardwood stands, marshes, and oxbow lakes in the flood plain of the Muskegon River.

Watersheds/Lakes: The Muskegon River flows through this compartment. Prestle Creek and Green Creek flow through this compartment. The north half of the Old Fur Farm flooding occurs in this compartment.

Archaeological Considerations: One archeological site has been identified just north of this compartment.

Fisheries Considerations: This compartment experiences light fishing pressure on the Muskegon River, the Old Fur Farm Flooding, and on Prestle and Green Creeks.

Other Considerations

Special Management Designation or Considerations: Some stands in the flood plain of the Muskegon River and a few adjacent upland areas have been identified as potential old growth.

Priority Wildlife Species/Habitat Objective: Deer, grouse, rabbits, turkeys, Kirtlands Warbler.

Survey Needs: None needed at this time as this compartment has been well surveyed in the past.

Fire Protection: This compartment is in Zone IV and contains concentrations of high hazard fuels and a well-developed wildland-urban interface including full and part time-time residences, weekend cabins, and gas/oil related components. The many acres of jack pine in this compartment are also contiguous with extensive areas of jack pine in adjacent compartments. Access for fire suppression along the county roads and forest two-tracks is generally good. There are also a few areas with natural fuel breaks such as wetlands areas, and creek and river corridors.

Treatment Summary, November, 2007: Stands 49, 67, and 69 have been identified by the Red Pine Project for final harvest. These stands should be put on the 2008 Plan of Work to be harvested and replanted to red pine.

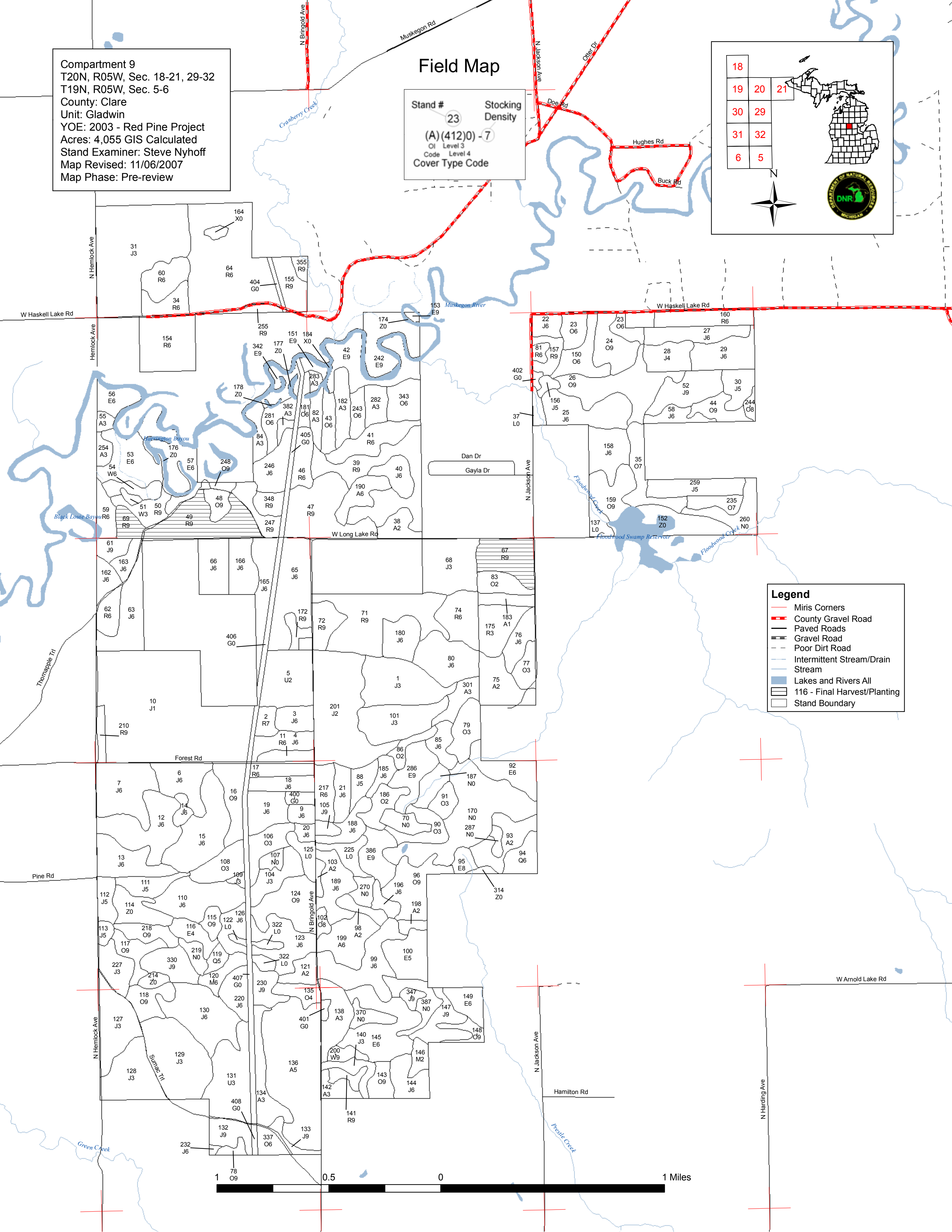
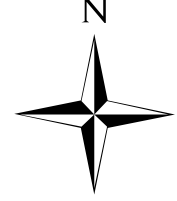
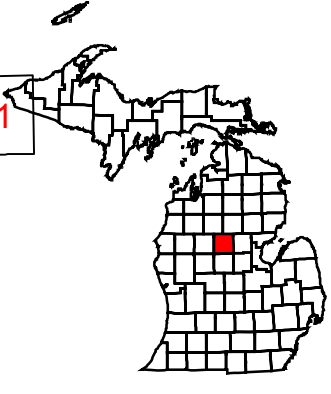
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
49	R9	42	68	64	red pine	two aged	final harvest	1	planting	stand with fdf potential
comnts Fmd : 2 AGED STAND. Stand was identified in the Red Pine Project to be harvested. The stand is to be harvested and replanted to red pine. Put on the 2008 POW.										
67	R9	28	67	62	red pine	immature	final harvest	1	planting	
comnts Fmd : REMOVED JACK PINE IN 1995, DENSITY IS HEAVY IN SPOTS AND EXTREMELY LIGHT IN OTHERS, SCATTERED WOLFY OAKS. Stand was identified in the Red Pine Project to be harvested. The stand is to be harvested and replanted to red pine. Put on the 2008 POW.										
69	R9	9	68	64	red pine	immature	final harvest	1	planting	stand with fdf potential
comnts Fmd : NICE RP STAND WITH LOTS OF YOUNGER RP/WP UNDER OLDER RP, SCATTERED JP AND OAK,. Stand was identified in the Red Pine Project to be harvested. The stand is to be harvested and replanted to red pine. Put on the 2008 POW.										
Total Acres.....		79								

Compartment 9
T20N, R05W, Sec. 18-21, 29-32
T19N, R05W, Sec. 5-6
County: Clare
Unit: Gladwin
YOE: 2003 - Red Pine Project
Acres: 4,055 GIS Calculated
Stand Examiner: Steve Nyhoff
Map Revised: 11/06/2007
Map Phase: Pre-review

Field Map

Stand # 23 Stocking Density
(A) (412)0 - 7
OI Level 3
Code Level 4
Cover Type Code

18		
19	20	21
30	29	
31	32	
6	5	



Legend

- Miris Corners
 County Gravel Road
 Paved Roads
 Gravel Road
 Poor Dirt Road
 Intermittent Stream/Drain
 Stream
 Lakes and Rivers All
 116 - Final Harvest/Planting
 Stand Boundary

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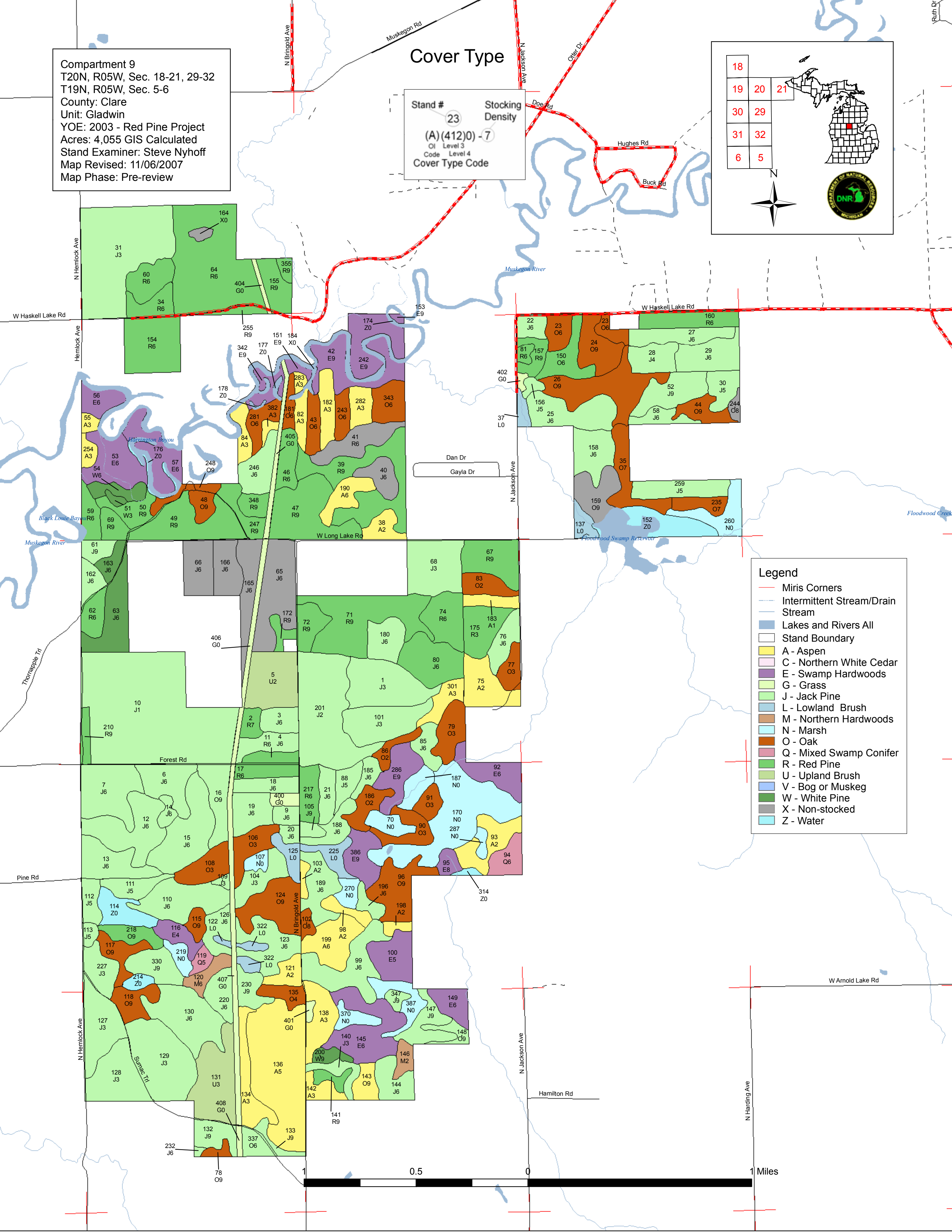
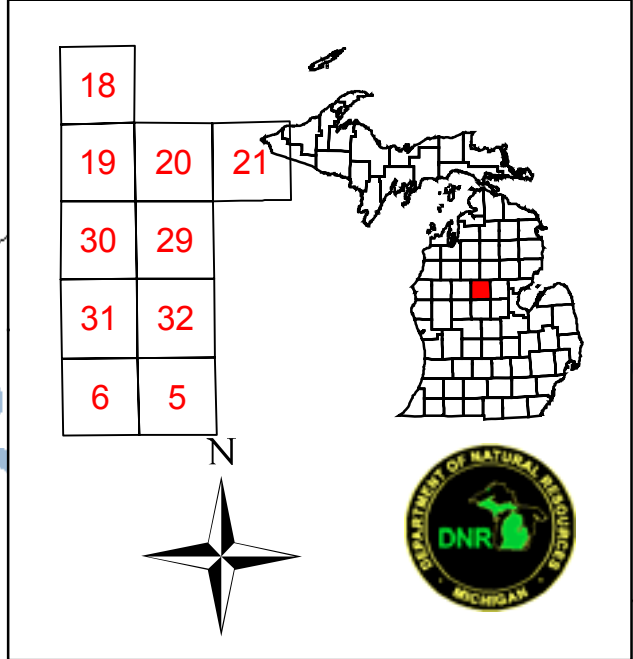
Stand # 23 Stocking Density

(A) (412) 0 - 7

Oil Level 3

Code Level 4

Cover Type Code



Legend

- Miris Corners
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers All
- Stand Boundary
- A - Aspen
- C - Northern White Cedar
- E - Swamp Hardwoods
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- Q - Mixed Swamp Conifer
- R - Red Pine
- U - Upland Brush
- V - Bog or Muskeg
- W - White Pine
- X - Non-stocked
- Z - Water

0.5

1 Miles